THE GREAT EXHIBITION.

CLASS XXII. No. 107, WESTERN AVENUE,

WHERE MAY BE SEEN A LARGE COLLECTION OF

PIERCE'S NEWLY-INVENTED

PYRO-PNEUMATIC, PURE WARM AIR, SELF-ACTING, AND VENTILATING STOVE-GRATE,

ADAPTED FOR

CHURCHES, CHAPELS, INFANT AND OTHER SCHOOLS, PUBLIC BUILDINGS OR PRIVATE DWELLINGS, BANKING HOUSES, RAILWAY OFFICES, PICTURE GALLERIES, ENTRANCE HALLS, LECTURE ROOMS, INVALIDS' APARTMENTS, &c. &c.

OR ANY SITUATION OR PLACE THAT MAY REQUIRE WARMTH WITH VENTILATION.

Manufactured only by PIERCE, in Registered Designs, protected by Act of Parliament, at his Warehouse and Manufactory, No. 5, JERMYN-STREET, for the enjoyment of Health, Warmth, Ventilation, Comfort, and Economy,

Being the only Pure Warm Air Stove-Grate yet invented that is constructed entirely of Fire-Lumps, without any heating surfaces of Iron; is peculiarly adapted for the efficient Warming and Ventilating Churches, Chapels, Schools, Public Rooms, Hotels, Invalids' Apartments, &c. This [illegible] promotes the [illegible] over Fuel, and from the [illegible] of its [illegible] in Use, and [illegible] or Danger, renders it more suitable than any other where these advantages, combined with purity of atmosphere, are important.—Price £7, £8 10s., £18 10s., and £30, to plain designs. It may be seen in daily use at the University Hall, Gordon-square; the Polytechnic Institution; the [illegible] House of Zoological Society, Regent's-park; Westminster [illegible]; Lloyd's Registry of Shipping, Cornhill; Guy's Hospital; the Bank of Messrs. Alexander and Co., Lombard-street; and at the MANUFACTORY, 5, JERMYN-STREET, where testimonials of its merits and prospectuses can be obtained; also at the Office of "The Builder," 1, York-street, Covent-Garden.

TO BUILDERS, CARPENTERS, CABINET MAKERS, &c.

G. H. BUCK, 122, Edgware-road, Paddington, begs to inform the above trades that he has purchased the business and premises of R. NELSON, Plane, Saw, and General Tool Manufacturer, where G. H. B. continues to carry on the said business, and begs to invite attention to his stock of well-seasoned planes of every description. G. H. B. has also a great variety of lathes and lathe apparatus suitable for amateurs. Orders from the country will be punctually attended to, and lists of prices sent on application post free. Clubs, saw-mills, and factories supplied at wholesale prices.—Terms, cash.

DOOR SPRINGS.—T. R. BODMER begs to direct the attention of Architects, Builders, and others, to his Registered TORSIONAL DOOR SPRINGS, which are the most efficient and simple in action, neat in appearance, and capable of being adjusted to suit any door.—Sole agents for London, Messrs. DEANE, DRAY, and Co., London-bridge.

COLLINGE'S PATENT HINGES.—Sole Manufacturers, CHARLES COLLINGE and CO., 65, Bridge-road, Lambeth, where a great variety are always on view for church, park, railroad, coach-house, and other gates and doors of large and small dimensions, a gate of a ton weight moving with these hinges as easily as a wicket. Ornamental hinges, adapted for drawing-rooms, &c.; doors fitted with them may be removed and replaced in an instant. Rising and double-acting spring hinges, and superior gate fastenings, at moderate prices. None genuine unless marked "Charles Collinge, Patent, Lambeth." Plain and ornamental cast and wrought-iron work, for building and other purposes. Engines, machinery, patent axletrees, sugar mills, &c.

TO IRONMASTERS, RAILWAY DIRECTORS, ENGINEERS, and FOUNDERS.—The Subscriber having been appointed SOLE AGENT in LONDON for the SALE of Mr. MORRIES STIRLING'S PATENT IRON, begs to intimate that he is prepared to supply railway companies, engineers, and founders, with the PATENT MALLEABLE and TOUGHENED CAST-IRON, and that all orders addressed to him for these, and also for RAILS, with hardened surfaces, shall have his prompt attention. Specimens of the different irons shown, and every information afforded, on application. Information as to the terms of licence under Mr. Stirling's Patents will be given by the Subscriber, and also by Mr. JEE, C.E., 6, John-street, Adelphi.

A. MACNAUGHT.

Offices—2, Queen-street-place, Upper Thames-street.
Warehouses—Paul's Wharf, 26, Upper Thames-street.

Aug. 2, 1851.

CHURCH and TURRET BELLS cast to any weight, and tuned. Ship, plantation, house, shop, sun, and clock bells of any size.

MUSICAL HAND BELLS

Tuned to the chromatic scale, with improved clappers, and pegged on a new system, which gives a superior tone and facility for ringing.

Memorial Brasses, Pulpit Lights, and Brackets, &c.

Old Bells recast, or taken in exchange.

J. WARNER and SONS,
BELL FOUNDERS,
ENGINEERS, &c.

SAMUEL HOOD and Co., Castings Ware-house, 81, Upper Thames-street. REGISTERED STABLE FITTINGS. Also, girders, columns, hot water pipes, rain water pipes, ovens, gutters, sash weights, &c., at the lowest prices. A powerful hydraulic PROVING-MACHINE for GIRDERS on hire.

TO BUILDERS AND THE TRADE.

CASTINGS, RAIN-WATER PIPE, GUTTERING, SASH-WEIGHTS, &c.

Iron Rain-water Pipe..	2	2½	3	3½	inch.
	8d.	10d.	1s. 1d.	1s. 3d.	per yrd.
Half Round Gutter	3	3½	4		inch.
	7d.	7½d.	8d.		per yard.

Sash-weights, 5s. per cwt. Air Bricks, 3s. 6d. per dozen.
Underground Pipe, 5s. 6d. per cwt.

A large stock of CASTINGS and WROUGHT-IRON WORK for BUILDING and other purposes, at equally low prices, consisting of,—

GIRDERS AND COLUMNS.	STENCH TRAPS.
RAILING AND STAIRCASE BARS.	SKYLIGHTS.
BALCONIES AND BALCONETTS.	SASHES, WROUGHT AND CAST.
CANTILEVERS AND BRACKETS.	STOVES, ALL DESCRIPTIONS.
FURNACE BARS AND GRATINGS.	COPINGS FOR WALLS.
LAMP POSTS.	MANGERS.
PUMPS.	HAY RACKS.
MAN-HOLE PLATES AND SCRAPERS.	SUPPLY CISTERNS.
	FIREPROOF DOORS.
	TANKS, &c. &c. &c.

Every article in the trade kept in stock. An extensive assortment of patterns for both PLAIN and ORNAMENTAL CASTINGS, and every description of WROUGHT-IRON WORK.

ESTIMATES on application or by post.

COTTAM AND HALLEN,
IRON WORKS, 2, WINSLEY-STREET, OXFORD-STREET; AND CORNWALL-ROAD, LAMBETH.

CHEAP, LIGHT, AND DURABLE ROOFING.

CROGGON'S PATENT ASPHALTE ROOFING FELT has been extensively used and pronounced efficient, and particularly applicable for warm climates.

1st. It is a non-conductor.—2nd. It is portable, being packed in rolls, and not liable to damage in carriage.—3rd. It effects a saving of half the timber usually required.—4th. It can be easily applied by any unpractised person.—5th. From its lightness, weighing only about 42 lbs. to the square of 100 feet, the cost of carriage is small.—6th. Under slates, metal, or tiles, it is a most effective non-conductor.

INODOROUS FELT, for damp walls and for damp floors, under carpets and floor cloths. Price ONE PENNY per Square Foot. CROGGON and CO.'S PATENT FELTED SHEATHING, for Covering Ships' bottoms, &c., and DRY HAIR FELT, for Covering Steam Boilers, Pipes, &c., preventing the radiation of Heat, saving 25 per cent. of Fuel, and deadening Sound.

Samples, testimonials, and full instructions, on application to CROGGON and CO., 2, DOWGATE-HILL, LONDON.

TO ARCHITECTS AND BUILDERS.

CHUBB'S WROUGHT-IRON and FIRE-PROOF DOORS and FRAMES, for strong Rooms. A large stock of the above, of all sizes, made in the best manner, and of different strengths, fitted with CHUBB'S PATENT DETECTOR LOCKS, throwing from two to twenty bolts, constantly on sale, at very moderate prices. FIRE-PROOF SAFES of every size, and Patent Detector Locks and Latches for all purposes.—C. CHUBB and SON, sole Manufacturers, 57, St. Paul's Churchyard, London.

PATENT WROUGHT NAILS.—These NAILS are submitted to the notice of Builders, Contractors, and Ship-builders, as being superior to any others and cheaper. They have the toughness of the best hand-made nails with far greater uniformity of make. The flat-pointed rose nails are particularly recommended wherever oak or other hard wood is used; being perfectly chisel-pointed, they require no boring, and will drive into the hardest wood without splitting it, and their heads being very strong do not fly off. The patent wrought nails may be had of all ironmongers. A stock of them is kept at the warehouse of the agents, HIGGS and GEORGE, Wholesale Ironmongers, 179, Borough, London.

ARTESIAN WELLS, BORING for WATER, SINKING SHAFTS, &c.—The Nobility, Gentry, Water Companies, Towns, Manufacturers and Others, requiring Water, may be supplied by DAVID GREENLEY, Civil Engineer, and Patentee of Boring Tools, 10, Cummins-street, Pentonville, London. Cast-iron Mains laid to any extent or diameter, for Gas or Water Companies. Men and Tools supplied to bore for railroads, minerals, &c. Boring Tools and suitable Pipes for exportation, with instructions.

THE PATENT GALVANIZED IRON.

TUPPER and CARR,

Owners of Crawford's Patents, and Successors to

THE GALVANIZED IRON COMPANY.

Supply patent Galvanized Sheets, plain or corrugated, for roofing, &c., Water or Gas Pipes, Castings, Wire of all gauges, Guttering, Hooping, &c. Wholesale, retail, and for export.

An allowance to the trade.

WORKS—MILLWALL and BIRMINGHAM.

LONDON OFFICE, 3, MANSION-HOUSE PLACE.

THE PATENT

GALVANIZING & CORRUGATING IRON COMPANY.

JOHN SYMONDS and Co., Managers.

The Company having made considerable improvements in the mode of working CRAUFURD'S PATENTS, and being able to galvanise larger work than was formerly practicable, they are in a position to execute orders to any extent, in a manner hitherto unequalled, and respectfully solicit the favours of builders, contractors, and others.

ON HAND, sheets, plain or corrugated, for iron houses, sheds, railway stations, &c.,—fixed to order, if required. Wire, piping, guttering, &c., for home use and exportation.

N.B.—Goods to be galvanized, sent for and returned free of charge, within three miles of the Tower; and all light goods received by Nine o'clock will be returned the same day, if required.

OFFICES—12, CIRCUS, MINORIES.

WORKS—GLASS-HOUSE-YARD, opposite the London Docks.

, A discount allowed to the trade.

IRON BUILDING and ROOFING WORKS,

BIRMINGHAM, late of Southwark.

JOHN H. PORTER,

Manufacturer of the Corrugated and other kinds of Iron Roofing for railway stations, carriage sheds, farm buildings, gas-works, warehouses, factories, &c. &c.

PATENTEE

Of the Corrugated Iron Beams, Girders, and Fire-proof Floors.

THE CORRUGATED and GALVANIZED IRON ROOF, PORTABLE BUILDING, AND NASMYTH'S PATENT FLOORING, ROOFING, AND GIRDER WORKS,

Offices, 45, Gracechurch-street.

JOHN WALKER, son of the Patentee of Corrugated Iron, calls the attention of Architects, Engineers, &c., to his List of Prices, which, consistently with good workmanship, are extremely low.

Models of the patent iron flooring, corrugated or not, and girders; also, drawings of roofs, on peculiar principles, may be had on application.

Drawings of the iron lighthouse spoken of in the *Times* and other papers (see the *Expositor* for February 8th), may be seen by application.

References to firms of the highest class can be given.

NASMYTH'S PATENT

WROUGHT-IRON Fire-proof Flooring.

JOHN WALKER, Sole Manufacturer and Licensee.
Offices, 45, Gracechurch-street.

FIRE-PROOF FLOORS.

The late lamentable accident in Gracechurch-street serves to prove that where cast-iron is the foundation on which floors, &c. are made, much dependence cannot be placed on it. This induces John Walker to earnestly solicit the attention and inspection of Architects, Engineers, &c. to Mr. G. NASMYTH'S PATENT FLOORING, of which J. W. is the sole licensee and manufacturer. The material is wrought iron, and therefore not subject to sudden fracture, as cast-iron is,—and wood is not introduced.

Descriptive pamphlets may be had, models may be seen, and every information obtained, at JOHN WALKER'S OFFICES, 45, Gracechurch-street.

MANUFACTURER OF CORRUGATED IRON.

CLASS II.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

DAMP WALLS. — NEW ELASTIC PAINT, an effectual remedy inside or out, will dry in a few hours, and may be immediately papered over if desired.

PATENT MINERAL ZINC PAINTS, invaluable for sweetness, beauty, and permanence, READY FOR USE, will stand any climate, and are well calculated for exportation. White, stone, and lead, 5s.; greens and blues, 6s. per gallon.

PATENT LIQUID CEMENT, READY FOR USE on the fronts of houses, only one eighth the cost of oil paint, for beauty pre-eminent, giving the appearance of fine-cut stone. In casks of 1 cwt., 2cwt., and 3 cwt., at 9s., 12s., and 15s. each. Casks returnable.

G. BELL and Co., Steam Mills, 2, Wellington-street, Goswell-street, London.

PURE WHITE ZINC PAINT.—Manufactured from the Vieille Montagne Company's white oxide of zinc, perfectly free from all poisonous qualities, is unaffected by sea water, sulphuretted hydrogen, or any of the gases, and preserves its original colour where white lead paint will not. Also Grey Zinc Paint, strongly recommended for iron work.—Sold wholesale by JOHN WARNER and SONS, 8, Crescent, Jewin-street, London.

PURE PATENT WHITE ZINC PAINT, from the Vieille Montagne Zinc Mining Company.—This Company having become Proprietors of all rights and interests of the late Patent White Zinc Company, in France and Belgium, is prepared to furnish, on a large scale, the WHITE OXIDE OF ZINC, in a pure state, and of a quality which can only be manufactured with the zinc from the mines in Belgium. Patent White Zinc Paint is superior, in every respect, to white lead paint. It is entirely free from all poisonous influences, and is unaffected by sea water, sulphuretted hydrogen, or any gases; besides it preserves its original colour, which White Lead Paint does not. White Zinc Paint causes none of those ravages, invariably occasioned by white lead, upon the human frame; neither painters' cholic nor paralysis, &c. &c., to which dangerous complaints the workmen who manufacture and use it, are subject, and to which persons who inhabit newly-painted apartments are also liable. A spurious article having been introduced in the market, under the name of White Zinc Paint, the public is cautioned against it, because, when adulterated, it becomes a very inferior paint, instead of a first-rate one.—For further particulars and prospectuses, apply to Mr. H. F. SCHMOLL, General Agent for England and Scotland, at the Company's Offices, 12, Manchester-buildings, Westminster-bridge; and for supply of material and prices, at Messrs. CHAS. DEVAUX and CO.'S, 62, King William-street, City.

HUBBUCK'S PATENT WHITE ZINC PAINT.—This elegant white, the favourite pigment of the ancients, has been used by artists for high decorative purposes, and is still known to the members of the Royal Academy under the old name of Permanent White.

Three years since the proprietors placed their manufacture on a large scale, and offered it at a price to compete with White Lead.

The successful introduction of this paint, and its confessed superiority over every other paint hitherto known, brought forward various imitations.

These inferior productions, frequently made from zinc ores containing sulphur, lead, arsenic, and other deleterious materials, alike injurious to health, deficient in body, and retaining the preservative properties for which the original paint stands pre-eminent.

In justice to the proprietors these should not be confounded with the original, even though sold under the pretence that it is all the same.

HUBBUCK'S paint is entirely free from any injurious properties whatever; it is beautiful in the ascendant, healthful in use, and healthful to occupants of rooms newly painted with it.

As a guard to the public against the introduction of the inferior paints, each cask is stamped

"HUBBUCK, LONDON, PATENT;"

and if the cask has not been been so marked, the reason is obvious.

A Circular with full particulars may be had of THOMAS HUBBUCK and SON, Colour Manufacturers, opposite the London Docks.

TO ARCHITECTS, BUILDERS, &c.

ALL descriptions of TERRA COTTA, CEMENT, and PLASTER CASTINGS, executed in a first-rate manner, on reasonable terms, by J. HERBERT and SON, Modellers, &c., 42, Parker-street, Drury-lane. A splendid assortment of Cornices, Ionic and other Capitals, Trusses, Flowers, Balusters, Trusses, &c., Chimneys, and other Chimney Shafts.

FLOOR-CLOTHS.—JOHN WILSON respectfully informs his friends and the public that he is now SELLING genuine and thoroughly seasoned FLOOR-CLOTHS at 2s. 3d. and 2s. 6d. the square yard, cut to any size or plan. Bordered cloths in proportion. Coachmakers' cloths at [illegible] per yard. A large stock of extra seasoned cloths for exportation. A liberal discount to merchants.—[illegible], Strand, near Temple-bar. Established 1815.

GUTTA PERCHA TUBING.—May be buried for years without injury and is so therefore valuable for conveying water, chemicals, &c. It is peculiarly valuable for liquid manure, drain, and soil pipes. Being a non-conductor, it is not affected by the frosts of winter or drought of summer, like metal or leather. Its strength is extraordinary; the small half-inch diameter tubing having resisted a pressure of 250 lbs. on the square inch without bursting. The smaller sizes may be had in 100 feet, and the larger in 50 feet lengths. The joints are easily made. As a conductor of sound it is most valuable for conveying messages in lieu of bells. Every variety of articles manufactured by the GUTTA PERCHA COMPANY, Patentees, 18, Wharf-road, City-road, London; and sold by their wholesale dealers.